

I. Amendments to the Claims

This listing of claims is submitted as a courtesy:

Listing of Claims

Claim 1. (previously presented) An electromagnetic regeneration valve for venting a tank of a motor vehicle, the regeneration valve being actuatable by pulse-width modulation and having a pulsed mode and a proportional mode having a higher frequency than the pulsed mode comprising:

- a solenoid, and circuitry configuration including:
- a power source for supplying the solenoid with electricity;
- a control unit for generating pulse-width-modulated signals;
- a switching device, the solenoid capable of receiving the pulse-width-modulated signals of the control unit via the switching device; and
- a suppression device for suppressing high induced voltages at the solenoid, the solenoid in the proportional mode having a position corresponding to a mean current level.

Claim 2. (previously presented) The electromagnetic regeneration valve as recited in claim 1, wherein the suppression device includes a free-wheeling diode connected in parallel to the solenoid.

Claim 3. (previously presented) The electromagnetic regeneration valve as recited in claim 1, wherein the regeneration valve is actuatable in the proportional mode with a pulse frequency of between 20 Hz and 200 Hz.

Claim 4. (previously presented) The electromagnetic regeneration valve as recited in claim 3, wherein the regeneration valve is actuatable with a pulse frequency of about 50 Hz.

Claim 5. (previously presented) The electromagnetic regeneration valve as recited

331.1050

in claim 1, wherein the power source includes the vehicle's electrical system.

Claim 6. (previously presented) The electromagnetic regeneration valve as recited in claim 1, wherein the control unit includes an engine controller.

Claim 7. (previously presented) The electromagnetic regeneration valve as recited in claim 1, wherein the switching device includes a power transistor.

Claim 8. (previously presented) The electromagnetic regeneration valve as recited in claim 7, further comprising a further diode connected in parallel to the power transistor.